



Office of Admissions
Shepherd College
Shepherdstown, West Virginia 25443

Shepherd

C O L L E G E

Supplement to the 1997–1999 Catalog





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Shepherd College Policy of Nondiscrimination

The College provides opportunity to all prospective and current members of the student body, faculty, and staff on the basis of individual qualifications and merit without regard to race, sex, religion, age, national origin, or handicap.

The *Supplement to the 1997-1999 Shepherd College Catalog* has been prepared to update information contained in the current *Catalog*. This supplement is intended to aid students in keeping current information on academic policies and curricula. A few changes may have been omitted where they were extremely minor.

The *Supplement to the 1997-1999 Catalog* is published through the cooperative efforts of the Office of the Vice President for Academic Affairs, Office of the Registrar, and the Office of External Affairs.

1999-2000 ACADEMIC YEAR CALENDAR

First Semester Fall 1999

8/18/99 Wed	New Freshmen & Transfers; Transfer Evaluations; English Placement Essay; Night Registration 6-7:15 p.m.
8/19/99 Thu	Faculty Report for Fall Semester, Faculty Meetings
8/20/99 Fri	Orientation, Academic Advisement
8/20/99 Fri	Registration/Payment — New Freshmen, Transfers and Readmits
8/23/99 Mon	Classes Begin — Late Registration Begins for Students who did not Register in April (Late Fee Applies)
8/23/99 Mon	Drop/Add Begins
8/25/99 Wed	Last Day to Drop/Add a Class — See Advisor by Noon; Wed Last Day for Late Registration
9/06/99 Mon	Labor Day — Holiday
9/13/99 Mon	Last Day to Change a Course from Credit Status to Audit Status
10/01/99 Fri	Last Day to Withdraw from 1st 8-weeks class — See Advisor by Noon
10/08/99 Fri	Last Day to Apply for May 2000 Graduation
10/11/99 Mon	First Day of Mid-term Exams
10/13/99 Mon	Second 8-weeks Classes Begin
10/15/99 Fri	Last Day of Mid-term Exam
10/18/99 Mon	Mid-term Grades Due (9 a.m.)
10/26/99 Tue	Mid-term Grades Distributed by Advisors
11/02/99 Tue	Last Day to Withdraw from a Full Semester Class — See Advisor by Noon
11/03/99 Wed	First Day of Academic Advisement for Continuing Students
11/10/99 Wed	Last Day of Academic Advisement for Continuing Students
11/08/99 Mon	First Day of Registration for Spring 2000
11/11/99 Thu	Last Day to Withdraw from second 8-weeks class — See Advisor by Noon
11/20/99 Sat	First Day of Thanksgiving Recess.
11/28/99 Sun	Last Day of Thanksgiving Recess
12/01/99 Thu	Last Day of Registration for Spring 2000
12/06/99 Mon	First Day to Adjust Registration for Spring 2000 (Add/Drop)
12/13/99 Mon	Last Day of Classes
12/14/99 Tue	First Day of Final Exams
12/18/99 Sat	Last Day of Final Exams; Last Day to Adjust Registration for Spring 2000 (Add/Drop)
12/20/99 Mon	First Semester Grades Due (9 a.m.) — End of First Semester Grades will not be mailed until January

Second Semester Spring 2000

1/10/00 Mon	New Freshmen & Transfers; Transfer Evaluations; English Placement Test; Night Registration 6-7:15 p.m.
1/11/00 Tue	Faculty Report for Spring Semester, Orientation, Academic Advisement
1/11/00 Tue	Registration/Payment — New Freshmen, Transfers and Readmits
1/12/00 Wed	Classes Begin—Late Registration for Students who did not Register in November (Late Fee Applies)
1/12/00 Wed	Drop/Add Begins
1/14/00 Fri	Last Day to Drop/Add a Class — See Advisor by Noon; Fri Last Day for Late Registration
1/17/00 Mon	Martin Luther King's Birthday — Holiday
2/02/00 Wed	Last Day to Change a Course from Credit Status to Audit Status
2/23/00 Wed	Last Day to Withdraw from 1st 8-weeks class — See Advisor by Noon

3/04/00	Fri	Last Day to Apply for August and December 2000 Graduation
3/06/00	Mon	First Day of Mid-term Exams
3/10/00	Fri	Last Day of Mid-term Exams; Second 8-weeks Classes Begin
3/13/00	Mon	Mid-term Grades Due (9 a.m.)
3/18/00	Sat	First Day of Spring Recess
3/26/00	Sun	Last Day of Spring Recess
3/27/00	Mon	First Day of Registration for Summer 2000
3/28/00	Tue	Mid-term Grades Distributed by Advisors
4/03/00	Mon	Last Day of Registration for Summer 2000
4/04/00	Tue	Last Day to Withdraw from a Full Semester Class — See Advisor by Noon
4/05/00	Wed	First Day of Academic Advisement for Continuing Students
4/10/00	Mon	First Day of Registration for Fall 2000
4/12/00	Wed	Last Day of Academic Advisement for Continuing Students
4/13/00	Wed	Last Day to Withdraw from second 8-weeks class — See Advisor by Noon
4/21/00	Fri	Last Day of Registration for Fall 2000
4/20/00	Thu	First Day of Spring Weekend Recess (If no snow days used)
4/23/00	Sun	Last Day of Spring Weekend Recess (If no snow days used)
4/24/00	Mon	First Day to Adjust Registration for Fall 2000 (Add/Drop) and Summer 2000
4/26/00	Wed	McMurran Scholars Convocation
5/05/00	Fri	Last Day of Classes
5/08/00	Mon	First Day of Final Exams
5/12/00	Fri	Last Day of Final Exams
5/15/00	Mon	Second Semester Grades Due (9 a.m.) — End of Second Semester
5/20/00	Sat	Commencement
6/14/00		Last Day to Adjust Registration for Fall 2000 (Add/Drop)

IMMUNIZATION REQUIREMENT

All new students of the State System of Higher Education under the jurisdiction of the West Virginia Board of Directors who were born after January 1, 1957, are required to provide proof of immunity to measles and rubella. Students are required to provide proof of immunity on or before the date of enrollment. The student shall have proof of immunity by the following semester or will not be permitted to enroll in classes.

AUDITING COLLEGE COURSES

A student may audit a College course by making application in the Office of Admissions as an auditor. Declaration of a change in a course from credit status to audit status must be processed within the first 15 class days (Monday-Friday) of a fall or spring academic session or within the first three class days (Monday-Friday) of a summer session. Any later change must be appealed to the Admissions and Credits Committee. An auditor is expected to comply with the instructor's attendance policy. Regular College fees are charged for persons auditing a course.

COLLEGE CREDIT FOR MILITARY SERVICE

Students who have completed basic training in military service may be granted a maximum of four semester hours credit, which may be used to satisfy general studies physical education and/or elective requirements. It is the student's responsibility to request this credit and to verify this military experience to the registrar. If the student was not in the Army or other service branch that has basic training, then Shepherd College will grant the same credit to individuals who present a certified copy of their DD-214 Form after completing a minimum of one year of active military service.

Correspondence work completed at accredited institutions of higher learning cooper [redacted] with the Armed Forces Institute is accepted by colleges in West Virginia. The amount of credit allowed by the institution where credit was earned, however, must not exceed 28 semester hours.

FRESHMAN ASSESSMENT AND PLACEMENT STANDARDS READING

1. Students scoring 19 or above on the reading section of the Enhanced ACT, 460 (400 on the old SAT) or above on the verbal section of the Recentered SAT, 36 or above on the reading skills test of the ASSET, or 30 percentile or above on the Nelson-Denny Reading Test will be considered to have met the minimal reading skill requirements.
2. Institutions in the State College System are encouraged to provide assistance for students who do not meet the standard and who are enrolled in a program leading to an associate's or bachelor's degree.
3. Any institution in the State College System may elect to set higher placement scores than the minimum scores described above.

ADVANCED PLACEMENT TESTS

In compliance with West Virginia Education System Procedure No. 22 in compliance with State Bill 243, Series 4, Shepherd College will grant credit for the following Advanced Placement tests with the test score indicated:

- American History—grades of 3, 4, or 5; HIST 201 and HIST 202
- Studio Art (general)—grades of 4 or 5; ART 204 (for art majors)
- Art History—grades of 3, 4, or 5; ART 103 and 1 hr. free elective
- Art History—grades 4 or 5; ART 203 (for art majors)
- Biology—grades of 3, 4, or 5; BIOL 101 and BIOL 102
- Chemistry—grades of 3, 4, or 5; CHEM 207, CHEM 207L, CHEM 209, CHEM 209L
- Classics—no credit given
- Computer Science A—grades of 3, 4, or 5; CIS 211
- Computer Science AB—grades of 3, 4, or 5; CIS 212
- Economics (macro and micro)—grades of 3, 4, or 5; ECON 205 and 206
- English (language and composition)—grades of 3, 4, or 5; ENGL 101
- English (literature and composition)—grades of 3, 4, or 5; ENGL 102
- Environmental Science—no credit given
- European History—grades of 3, 4, or 5; HIST 103
- French Language—grades of 3 or 4; FREN 101
grade of 5; FREN 101 and 102
- German Language—grades of 3 or 4; GERM 101
grade of 5; GERM 101 and 102
- Government and Politics (American)—grades of 3, 4 or 5; PSCI 101
- Calculus AB—grades of 3, 4, or 5; MATH 207
- Calculus BC—grades of 3, 4, or 5; MATH 207 and 208
- Music (Theory)—grades of 3, 4, or 5 ; MUSC 111 and 1 hr free elective
- Music (Theory)—grades of 4 or 5; MUSC 103 (for music majors)
- Physics B—grades of 3, 4, or 5; PHYS 201 and 202
- Physics C-Mech—grades of 3, 4, or 5; PHYS 201
- Physics C-E&M—grades of 3, 4, or 5; PHYS 202
- Psychology—grades of 3, 4, or 5; PSYC 203

Spanish Language—grades of 3 or 4; SPAN 101
grade of 5; SPAN 101 and 102
Statistics—grades 4 or 5; MATH 314

To receive credit for Advanced Placement Tests, students must have the AP test results sent to the Office of Admissions at Shepherd by the testing service. As new AP tests are developed, additional credit may be awarded.

GENERAL REQUIREMENTS FOR GRADUATION

Students must complete within seven years the graduation requirements of the Catalog they choose. They may choose the Catalog in effect at their initial admission to the College or a subsequent Catalog. Students may not split Catalog requirements.

DEAN'S LIST

To be named to the Dean's List, a student must carry at least 15 hours of work or be in the professional teaching block and must maintain a 3.4 average for the semester.

GRADUATION WITH HONORS

Honors are determined by the cumulative quality point average of the student's work at graduation: highest honors, *Summa Cum Laude*, 3.8 and above; high honors, *Magna Cum Laude*, 3.6 to 3.79; honors, *Cum Laude*, 3.4 to 3.59.

ASSESSMENT AND PLACEMENT PROGRAMS

Shepherd College REQUIRES student participation in assessment tests and surveys. The results enable the College to monitor its programs and services, to assist students in fulfilling their academic goals, and to fulfill reporting requirements to accrediting and government agencies. The assessment committee and the assistant vice president for academic affairs oversee development and reporting of assessment activities. Both academic and administrative departments throughout the College will require student input about their functions from time to time.

Students will be notified when they are expected to participate in assessments. The assessments of freshman writing abilities for placement in English courses and a survey of graduating seniors are well-established college-wide assessments. Starting in 1998-99, sophomores' skills in general education also will be surveyed. In addition, each program conducts its own assessments of student learning. Generally these assessments can be completed in a modest period of time.

Failure to participate when required can result in administrative action including withholding of grades and/or restriction from registration until the requirements are met.

INTERNATIONAL BACCALAUREATE

Shepherd College recognizes the International Baccalaureate (IB) curriculum as a strong pre-college academic program and encourages applicants to complete the requirements for the IB diploma. Advanced standing will be awarded for higher level exams with scores of 5, 6, or 7 to students who present either the IB diploma or individual IB exam scores. Credit is not awarded for standard level exams.

Individual academic departments determine how credit will be awarded for IB exams in a manner similar to the awarding of credit for Advanced Placement exams.

PROGRAMS OF STUDY

ATHLETIC TRAINING

Athletic training as a minor is open to students in any major who meet the selection criteria.

Athletic Training Minor

The Physical Education Department offers a comprehensive interdisciplinary, nonteaching minor in athletic training. The curriculum is designed to prepare students for graduate school in sports medicine and eventually qualifying them for certification by the National Athletic Trainers Association (NATA) or to serve as an athletic trainer in the public schools. The minor in athletic training is open to students in any major who meet the selection criteria.

Selection Criteria

1. Candidates for the program should complete the application form by December of their sophomore year. Applications will be reviewed during the month of January and again in May.
2. Applicants must provide three letters of recommendation. It is desirable to have two letters from faculty and one from a physician, physical therapist, or athletic trainer.
3. Applicants must be in good academic standing and provide a transcript of courses completed and a statement of athletic training-related experiences.

Curriculum for a Minor in Athletic Training

Total semester hours required	31	
HLTH 103	Personal Health	3
ATHC 224	Care and Prevention of Athletic Injuries	3
FACS 318	Nutrition	3
PHED 328	Extremity Assessment	3
PHED 329	Head and Trunk Assessment	3
PHED 405	Applied Kinesiology	3
PHED 370	Applied Anatomy and Physiology	4
PHED 360	Athletic Training Practicum I	3
PHED 365	Athletic Training Practicum II	3
BIOL 225	Human Anatomy and Physiology	3

COMPUTER AND INFORMATION SCIENCES

Curriculum for a Comprehensive Major in Computer and Information Sciences

This comprehensive program provides students with the concepts and skills necessary to develop and manage state-of-the-art computer information systems. The interdisciplinary nature of the program reflects the importance of information systems in virtually every kind of organization. Graduates of the program will be prepared to apply their knowledge professionally and to pursue graduate training.

Total hours required	128
General studies requirements	44
Comprehensive major requirements	65
General electives	19

EDUCATION

Specializations

Beginning with students entering fall 1997, the grade range for the elementary education multi-subjects teacher education program leading to West Virginia certification will be K-6. The grade range for endorsements, including art, mathematics, language arts, and social studies, will be 5-9.

- Art Education K-12
- Art Education 5-12
- Biology Education 9-12
- Business Education 9-12
- Chemistry Education 9-12
- Elementary Education K-6 Multi-subjects
- English Education 5-12
- Family and Consumer Science Education 5-12
- General Science Education 5-12
- Health and Physical Education K-12
- Mathematics Education 5-12
- Music Education K-12
- Social Studies Education 5-12

Admission

Eligibility for admission as a student into the teacher education program includes but is not limited to:

1. Student obtains application form for admission from specialization handbook, completes the form, and returns the form to specialization coordinator or advisor if elementary. To be eligible for admission to the teacher education program (TEP) the student must:
 - A. Have as an official academic advisor a faculty member in the Department of Education if seeking admission to the elementary teacher education program or, if seeking admission to a secondary specialization, the specialization coordinator of the specialization field or his/her designee;
 - B. If adding an endorsement, have as co-advisor the coordinator in the endorsement field or his/her designee;
 - C. Have completed the 9 hours of professional education foundations courses with no grade lower than C;
 - D. Have passed all sections of the PPST or provide official proof of exemption;
 - E. Have earned an overall GPA of 2.5 on at least 32 degree credits taken at Shepherd College or a GPA of 2.5 on 16 hours for transfer students;
 - F. Document satisfactory progress in portfolio development;
 - G. Submit a statement he/she has signed attesting that he/she has not been convicted of any felony as established by West Virginia Code; and
 - H. Have met specific requirements in the specialization/endorsement handbook for the area into which he/she wishes to be admitted.

The following five endorsements are offered: art 5-8, English 5-8, social studies 5-8, math 5-8, and PreK-K early childhood. The following are general policies and procedures governing endorsements:

1. Endorsement(s) can be added to the elementary or secondary specialization, other than PreK-K endorsement which may be added only to the elementary specialization.
2. Students seeking an endorsement must apply to the appropriate specialization coordinator and be approved by the department(s) in which the endorsement is housed.
 - A. The art, English, math, and social studies endorsements are under the aegis of the

10 • Shepherd College

- secondary specialization in which they are housed.
- B. The PreK–K early childhood endorsement is under the aegis of the elementary education specialization.
 - C. Students seeking the PreK–K endorsement will have the coordinator of the PreK–K endorsement as an advisor or his/her designee.
 - D. The student must take and pass any required PRAXIS II test in each field in which an endorsement is sought.

Retention

To be eligible for retention review the student must:

- 1. Have been admitted to the teacher education program;
- 2. Have full status in the teacher education program (see specialization area handbook for description of status categories);
- 3. Have successfully completed at least one-third but no more than two-thirds of the remaining specialty studies required after having been admitted to the teacher education program. Number of hours will be determined by individual specialization areas;
- 4. Have successfully completed the professional education courses or hours specified in the specialization area as published in the specialization handbook. The minimum number of courses is one professional education course and two professional education hours beyond the 9 hours of foundation courses used for admission eligibility;
- 5. Have required GPA (set by specialization area with 2.5 the minimum) in the specialization, endorsement (if applicable), professional education, and overall;
- 6. Have successfully completed ENGL 101, ENGL 102, and COMM 202 (or equivalents) with no grade lower than C;
- 7. Have no grade lower than C in specialty, endorsement, and professional education;
- 8. Document satisfactory progress in portfolio development;
- 9. Have met other requirements as determined by one's specialization; and
- 10. Continue to be free of conviction for felony.

Once eligibility requirements for Review Juncture 2 have been met, the student must initiate the retention review process with his/her academic advisor (or co-advisor, if applicable). The advisor reviews the student's file to certify eligibility for retention review.

Curricular Policies for Teacher Education

The following curricular policies are common to all teaching specializations. Please refer to the specialization area handbook for specific policies for your area of interest.

- 1. No more than seven years must have elapsed between completing any courses in the specialty, endorsement, and professional studies areas and the completion of the teacher education program. In order to complete a teacher education program:
 - A. Students must complete within seven years the graduation requirements in the Catalog which they have chosen. They may choose a Catalog in effect at the initial admission to the College or a subsequent Catalog. If no Catalog choice is explicitly made, the student is assigned one. Students may not split Catalog requirements.
 - B. State-mandated changes, if they occur, override requirements in the Catalog, an implementation schedule determined by the state. Otherwise, the College Catalog is the binding document for all audits of graduation requirements.
 - C. Rules affecting the internal progress of students within the education programs are provided in the specialization handbooks, and exceptions to these rules must be approved by the Professional Education Unit Council.
- 2. Once a student has been admitted to Shepherd College, transfer course work will be applied to meeting specialty studies, endorsement, and professional studies requirements.

ments must be approved. In the case of specialty and endorsement courses, the approval must come from the specialization coordinator or his/her designee. In the case of professional studies, the approval must come from the chair of the Department of Education or his/her designee. It is the student's responsibility to provide sufficient information regarding the courses under consideration to permit an informed judgment based on the content and thematic requirements of the teacher education program.

3. All students seeking elementary or secondary education degrees must satisfy the requirements for graduation that apply to all Shepherd College graduates and, in addition, maintain at least a GPA of 2.5 in education (consists of Professional and Specialty Studies Curriculum) and an overall GPA of at least 2.5.
4. Advisors will not permit advisees to enroll in courses for which prerequisites are not met, except in extreme cases. It is the student's responsibility to establish a documented case justifying the exception.
5. Each specialization and endorsement area determines the courses which must be satisfactorily completed prior to student teaching.
6. All required professional education courses except the student teaching seminar and capstone seminar must be completed prior to student teaching.
7. Specialization and endorsement areas may identify critical courses and experiences which require more rigorous levels of performance than the minimums established by the professional education unit.

ENGLISH Curriculum for a Major in English

Ancient/Medieval/Renaissance:

NGL 300	Studies in Greek Mythology	3
NGL 302	The Bible as Literature	3
NGL 315	Medieval Literature	3
NGL 320	Renaissance Prose and Poetry	3
NGL 321	Renaissance Drama	3
NGL 322	Hamlet in Context	3
NGL 423	Milton	3

Curriculum for a Teaching Field in English-Language Arts 5-12

Ancient/Medieval/Renaissance:

NGL 302	Bible as Literature	3
NGL 315	Medieval Literature	3
NGL 320	Renaissance Prose and Poetry	3
NGL 321	Renaissance Drama	3
NGL 322	Hamlet in Context	3
NGL 415	Chaucer	3
NGL 423	Milton	3

ENVIRONMENTAL STUDIES

The environmental science/resource management program provides an interdisciplinary major and minor for students desiring a fundamental knowledge of the environment and the too often associated environmental problems. Basic knowledge of the physical sciences, in combination with awareness of public policy and human impact on natural and cultural resources, forms the core of this program. The goals of the environmental science/resource management program are as follows:

12 • Shepherd College

- 1) To provide students with the intellectual means for viewing the environment as a system of many interlocking parts and processes, including physical, biological, cultural, political, and economic components;
- 2) To provide students with the awareness of and appreciation for the precious physical, biological, and cultural resources on which our society depends and which we must properly conserve; and
- 3) To provide the student with intellectual and technical skills for active participation in the environmental field and in graduate study in environmentally-related disciplines.

In the past, those desiring employment in the environmental field typically attained a degree in biology, geology, or chemistry and focused on the environmental component while in graduate school. This highly structured, interdisciplinary degree prepares students with the technical skills necessary for employment or a competitive background for environmental graduate programs. An internship is required for majors and recommended for minors, as the hand-on experience provided completes student understanding of the nature of the environmental sciences and resource management. These experiences frequently lead to employment opportunities.

The environment studies degree is a comprehensive major which includes a broad core curriculum in combination with one of two optional tracks. The environmental science option focuses on applications of the physical and biological sciences to analysis and resolution of environmental problems. The resource management options stresses the importance and application of the management of our natural and cultural resources.

Curriculum for a Comprehensive Major in Environmental Studies

Total hours required (minimum)	128
General studies requirements (not including major requirements)	33
Major: Specific general studies requirements	14
Core requirements	
Option I or Option II requirements	38
Environmental studies core requirements	
ENVS 201 Dimensions of Environmental Science I	3
ENVS 202 Dimensions of Environmental Science II	3
ENVS 305 Environmental Law	3
ENVS 306 Environmental Policy	3
CHEM 325 Computers in Science	3
ENVS 307 Cultural Resource Management	3
ENVS 308 Physical Resource Management	3
ENVS 450 Environmental Internship	6
ENVS 451 Senior Research Seminar	3
ECON 206 Principles of Microeconomics	3
One of the following series:	
CHEM 101 Chemistry and Society I with Lab	4
CHEM 102 Chemistry and Society II with Lab	4
OR	
CHEM 207 * General Chemistry I	3
CHEM 207L * General Chemistry I Lab	1
CHEM 209 * General Chemistry II	3
CHEM 209L * General Chemistry II Lab	1

*Required for the Environmental Science Option, either of the series can be used for the Environmental Policy/Resource Management Option.

pecific general studies requirements:

one of the following series:

OL 101/L	General Biological Science	4
OL 102/L	General Biological Science	4

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BIOL 208*	Plants as Organisms	4
BIOL 209*	Animals as Organisms	4

Required for the Environmental Science Option, either of the series can be used for the Environmental Policy/Resource Management Option.

one of the following math courses:

MATH 205	Calculus with Applications	4
MATH 314	Statistics	3

one of the following economics course:

ECON 205	Principles of Macroeconomics	3
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option I: Environmental Science

Total hours required 38-39

NVS 401	Concepts of Ecology	4
NVS 490	Applied Remote Sensing	3

one of the following series:

HYS 201	College Physics	4
HYS 202	College Physics	4

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HYS 221	General Physics	4
HYS 222	General Physics	4

minimum of 8 hours from the following:

OL 302	Microbiology	4
OL 305	Cell Biology	4

OL 310	Plant Pathology	4
OL 313	Invertebrate Natural History	4

OL 324	Plant Taxonomy I	2
OL 325	Plant Taxonomy II	1

OL 410	Plant Physiology with Lab	4
OL 412	Animal Physiology	4

minimum of 8 hours from the following:

HEM 315	Organic Chemistry I	3
HEM 315L	Organic Chemistry I Lab	1

HEM 316	Organic Chemistry II	3
HEM 316L	Organic Chemistry II Lab	1

HEM 329	Biochemistry I	3
HEM 329L	Biochemistry I Lab	1

HEM 321	Analytical Chemistry	3
HEM 321L	Analytical Chemistry Lab	1

HEM 322	Instrumental Analysis	3
HEM 322L	Instrumental Analysis Lab	1

HEM 330	Biochemistry II	3
HEM 330L	Biochemistry II Lab	1

choose at least two of the following courses:

SCI 301	Geology	4
SCI 303	Meteorology	4

SCI 306	Oceanography	3
NVS 441	Hydrology and Lab	4

NVS 440	Solid Waste/Air Quality Management	4
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14 • Shepherd College

Option II: Resource Management

Total hours required 39

ENVS 490 Applied Remote Sensing 3

Select three of the following:

GSCI 301 Geology 4

GSCI 303 Meteorology 4

GSCI 303 Astronomy 4

GSCI 306 Oceanography 3

ENVS 440 Solid Waste/Air Quality Management and Lab 4

ENVS 441 Hydrology and Lab 4

Select four of the following:

APSC 301 Wildlife Management 3

APSC 302 Forestry 3

ENVS 210 Introduction to Park Administration 3

ENVS 309 Regional Geology and Geomorphology 3

ENVS 310 Park Management 3

ENVS 311 Resource Management 3

ENVS 319 Land Use Planning 3

Select four of the following:

ANTH 225 Introduction to Museum Studies 3

ANTH 300 Introduction to Archaeology 3

ANTH 315 Cultural Anthropology 3

ANTH 345 Archaeology Field Methods 4

ANTH 370 American Architectural Heritage 4

ANTH 380 Historical Archaeology 4

HEALTH EDUCATION

Curriculum for Second Teaching Field in Health Education (5-12)

Total hours required for the specialization 39

HLTH 103 Personal Health 3

HLTH 225 First Aid/CPR 3

HLTH 300 Substance Use and Abuse 3

HLTH 360 School Health Problems 3

HLTH 370 Community Health Education 3

PHED 370 Applied Anatomy and Physiology 4

FACS 318 Nutrition 3

NOTE: Students must also satisfy professional education requirements for certification. Refer to Department of Education course offerings in this Catalog.

Other Requirements for Health Education:

I. Academic Requirements:

Students in health education 5-12 student teaching field must meet the following criteria before enrolling in EDUC 455 Student Teaching Grades K-4, 5-8, 9-12:

1. Earn a GPA of 2.5 in all health education courses;
2. Earn a GPA of 2.5 in all professional education courses;
3. Earn a GPA of 2.5 in all general studies courses;
4. Earn an overall GPA of 2.5 in all course work attempted;
5. Satisfy all requirements in the *Handbook for Teachers of Health Education and Physical Education*; and
6. Be interviewed by the HPERS faculty for entrance into the Teacher Education Program and student teaching block.

Out-of-Class Requirements for Teaching Health Education:

Complete four of the following health education growth experiences:

1. Participate in organizing and administering four blood drives;
2. Work as a student assistant in the Wellness Center;
3. Participate in a state, district, or national professional health education conference;
4. Participate in a sanctioned workshop or activity related to health education;
5. Observe in a 15-hour public school health education classroom experience; or
6. Observe at 15 hours in a special (adapted) physical education class in an off-campus setting.

Individual potential as a professional educator will be closely examined as the student progresses through the curriculum. The “Showing Promise” evaluation form is for this purpose.

HEALTH AND PHYSICAL EDUCATION**Other Requirements for Health and Physical Education:****Academic Requirements:**

Students in either physical education teaching specialization must meet the following criteria before enrolling in EDUC 455 Student Teaching Grades K-4, 5-8, 9-12:

1. Earn a GPA of 2.5 in all health education courses;
2. Earn a GPA of 2.5 in all professional education courses;
3. Earn a GPA of 2.5 in all general studies courses;
4. Earn an overall GPA of 2.5 in all course work attempted;
5. Satisfy all requirements in the *Handbook for Teachers of Health Education and Physical Education*; and
6. Be interviewed by the HPERS faculty for entrance into the Teacher Education Program and student teaching block.

Out-of-Class Requirements for Teaching Health and Physical Education:

Individual potential as a professional educator will be closely examined as the student progresses through the curriculum. The “Showing Promise” evaluation form is for this purpose. In addition to the academic requirements, the student must:

1. Complete four of the following physical education growth experiences:
 - a. Participate for one season as an intercollegiate athlete, manager, or trainer;
 - b. Organize and administer intramurals for one full season;
 - c. Attend a state, district, or national professional physical education conference;
 - d. Attend an elementary physical education conference, i.e., Camp Caesar;
 - e. Participate in a sanctioned workshop or activity related to physical education.
2. Complete four of the following health education growth experiences:
 - a. Participate in organizing and administering four blood drives;
 - b. Work as a student assistant in the Wellness Center;
 - c. Participate in a state, district, or national professional health education conference;
 - d. Participate in a sanctioned workshop or activity related to health education;
 - e. Observe in a 15-hour public school health education classroom experience;
 - f. Observe at least 15 hours in a special (adapted) physical education class in an off-campus setting.

HOTEL-MOTEL AND RESTAURANT MANAGEMENT

The hotel, motel, and restaurant management major is being discontinued for all new students (first year and transfer), effective July 1, 1998. Students readmitted to Shepherd College who were previously enrolled in this major and students currently enrolled in this major will be guaranteed the opportunity to complete the program as outlined in their *Catalog*. Questions should be directed to the chair of the Department of Business Administration/FACS.

MUSIC

VI. Senior Music Activity

- A. The senior music activity for all students will assume one of the following forms:
 1. *Recital* (minimum of one-hour total time)
The recital will involve a minimum of 45 minutes of actual music on the student's primary instrument.
 2. *Lecture-Recital* (minimum of one-hour total time)
The lecture-recital will involve a minimum of 25 minutes of actual music, plus pertinent comments relative to the works presented.
 3. *Project*
The project is regarded as a creative laboratory experience and could take the form of original composition, arranging, conducting, innovative pedagogy, etc. Thesis-like papers as such do not satisfy the intent of the project. It is expected that the project will consume as much preparation time as a recital or lecture-recital.
 4. *Recital-Project*
A student may perform a half-recital (computed as 25 minutes of actual music) and also complete a project in order to satisfy the equivalent preparation time of a recital or a lecture-recital.
- B. Students concentrating in performance in the Bachelor of Arts program are required to present a senior recital. Successful completion of the junior recital is a prerequisite. Students whose concentration is performance must have reached a Performance Level of 8 in order to present their senior recital.
- C. Students whose concentrations are studio pedagogy and composition and students who are music education majors must reach their required levels in order to present the recital as the senior music activity. Students who have not reached the required levels may fulfill their requirements by completion of one of the other three forms. Students electing these projects will still need to reach their performance levels before completion of the degree program.
- D. Students concentrating in composition in the Bachelor of Arts program are required to present a performance of their own music containing no less than 45 minutes of actual music.
- E. Students wishing to perform on a secondary instrument during a senior music activity must reach a suitable level for recital presentation on their secondary instrument in order to include the secondary instrument in their senior music activity. This acceptable applied level is considered to be a Level IV or greater.
- F. Procedure:
 1. During the junior year, the student, his or her advisor, and/or his or her applied instructor will determine the form of the senior music activity. Following this, the student shall submit to the department chair a typewritten proposal. The proposal must provide a partial listing of the music to be presented in the case of

recitalists or a concise but specific description of the activity to be undertaken. The proposal must also include a projected completion date. The department chair will then request approval from the music faculty.

2. All students proposing to perform an activity must provide the department chair with a list of no fewer than three preferred performance dates and, if appropriate, performance venues, to be submitted no later than the semester preceding the activity.
3. The student must assume total responsibility for personnel, rehearsals, staging, etc.
4. Students should work to fulfill their senior music activity on the approved date. If, for some reason, the student cannot fulfill this requirement, the student must begin the procedure again to request another date.
5. Recitals may be presented in the recital hall (M-08), the theater of the Frank Arts Center, or Reynolds Hall. Organists will need to make arrangements with a facility that contains a suitable organ for their presentation. All recital venues should be decided upon in consultation with the applied instructor.
6. The full-time music faculty member most identified with the musical area of the student's senior music activity will serve as the advisor in conjunction with the student's regular advisor and/or applied instructor if the two are not the same. The student bears the basic initiative for his or her own progress, and must maintain regular contact with his or her advisor(s).
7. Students completing a project or recital-project will submit a copy of any written projects to each music faculty member on or prior to the projected completion date. These copies are to be in approved finished form.
8. The senior music activity will be evaluated by a committee of three faculty members appointed by the department chair. The committee will consist of the student's applied instructor and two full-time faculty members. The student's applied instructor will submit the results of the committee to the department chair, who will notify the student as to the success of the senior music activity.

VII. Junior Recital

All music majors in the Bachelor of Arts program, performance concentration, must present an approved recital during their junior year. Students are encouraged to use the 1:10 p.m. recital time prior to midterm for the junior recital, but other venues may be approved by written request from the faculty in the semester preceding the intended recital date. The junior recital is optional for all other music majors. Procedural items 2, 4, and 8 also apply to junior recitals.

NURSING

Curriculum for a Comprehensive Major in Nursing

Total hours required for the degree	130	
Pre-Nursing	67	
Nursing curriculum	60	
Elective	3	
ENGL 101	Written English	3
CHEM 120*	College Chemistry	3
CHEM 120L*	College Chemistry Laboratory	1
GSPE 100 level	Physical Education	1
MUSC 111	Music Appreciation	2
MATH 154	Finite Mathematics OR	
MATH 101	Introduction to Mathematics	3
HIST 101	History of Civilization: Ancient through Medieval OR	
HIST 102	History of Civilization: Renaissance to French Revolution OR	
HIST 103	History of Civilization : French Revolution to Present	6

18 • Shepherd College

ENGL 102	Written English	3
CHEM 122*	College Chemistry	3
CHEM 122L*	College Chemistry Laboratory	1
GSPE 100 level	Physical Education	1
ART 103	Introduction to Visual Arts	2
PSCI 100	Politics and Government OR	
PSCI 101	American Federal Government	3
ENGL 208	Survey of World Literature I OR	
ENGL 209	Survey of World Literature II	3
BIOL 225*	Human Anatomy and Physiology	3
BIOL 227*	Anatomy and Physiology Lab	1
BIOL 302*	Microbiology and Laboratory	4
SOCI 203	Sociology	3
PSYC 203	Introduction to Psychology	3
NURS 231	Introduction to Nursing (R. Section/RN Transition)	2
ENGL 204	Survey of American Literature	3
BIOL 226*	Human Anatomy and Physiology	3
BIOL 228*	Anatomy and Physiology Laboratory	1
ECON 123	Contemporary Economics OR	
ECON 205	Economics	3
FACS 318	Nutrition	3
COMM 202	Fundamentals of Speech	3
*Science courses must be taken in order listed		
NURS 311	Nursing I Introduction to Health Care	3
NURS 313	Nursing I-A Health Assessment	3
NURS 315	Nursing I-B Clinical Component	3
EDUC 300	Human Growth and Development	3
Elective	3	
NURS 316	Nursing II Health Care of the Adult	3
NURS 317	Essentials of Clinical Pharm/Patho in Nursing	2
NURS 318	Nursing II Clinical Component	3
NURS 320	Nursing III Mental Health Psychiatric Care	3
NURS 322	Nursing III Clinical Component	2
NURS 324	Nursing Research	2
NURS 326	Essentials of Clinical Pharm/Patho in Nursing	2
NURS 411	Nursing IV Community Health Care	3
NURS 413	Nursing IV Clinical Component	3
NURS 415	Nursing V Health Care of Children and Families	3
NURS 417	Nursing V Clinical Component	2
NURS 419	Nursing VI Health Care of Women	2
NURS 421	Nursing VI Clinical Component	3
NURS 422	Nursing Health Care of the Adult: Gerontology Focus ..	3
NURS 424	Nursing VII Clinical Component	3
NURS 426	Nursing VIII Health Care of the Adult: Critical Care Focus ..	3
NURS 428	Nursing VIII Clinical Component	2
NURS 434	Management Issues in Health Care	3
NURS 436	Senior Capstone Seminar	1

RECREATION AND LEISURE STUDIES

Curriculum for a Comprehensive Major in Recreation and Leisure Studies

Choose one of the following, 3 hrs:

DWK 402	Social Gerontology	3
ECR 440	Late Adulthood Issues	3
SYC 302	Psychology of Aging	3

COMMUNITY AND TECHNICAL COLLEGE

BUSINESS

The curriculum for the A.A.S. in business administration consists of three components—general education courses, a business core, and an area of concentration:

General education courses	18 hours
Business core	31 hours
Concentration	15 hours
Total Hours Required:	64 hours

General Education Requirements

General education courses	18
CON 205 Principles of Macroeconomics	3
NGL 101 Written English	3
OMM 202 Fundamentals of Speech	3
IATH 154 Finite Mathematics* OR	
MATH (100 level or higher)	3
Two courses from the College's program of general studies.	6
Students who wish to pursue a B.S. in business at a later date should take MATH 154.	

Business Core Requirements

OFTC 105 should be taken before ENGL 101

Business core courses required	31
CCT 201 Introductory Accounting I	3
CCT 202 Introductory Accounting II	3
ADM 150 Introduction to Business	3
ADM 310 Principles of Management	3
ADM 212 Business Law I	3
ADM 340 Marketing	3
CON 206 Principles of Microeconomics	3
FTC 105 Fundamentals of Business Communications	3
IS 102 Microcomputer Applications	3
	Business Electives
	4
	(Select from BADM, BSED, CIS, ACCT, or OFTC)

Concentration Requirements

Accounting Concentration

The accounting concentration is a demanding program designed to prepare students for an entry level position as an accounting clerk. It is also designed for persons planning to transfer into a bachelor's degree program in accounting at Shepherd College.

Accounting concentration	1
ACCT 329 Intermediate Accounting I	3
ACCT 330 Intermediate Accounting II	3
ACCT 335 Income Tax	3
ACCT 336 Cost Accounting	3
ACCT 292 Accounting Internship	3

Banking Concentration

The banking concentration uses the courses that the American Institute of Banking (AIB) is currently teaching at Shepherd College for academic credit. It is designed so that the student enrolled in an AIB diploma program can apply all of their college work on that diploma toward the associate's degree. The program does not include an internship as all of the students in the courses are currently bank employees.

Students in the program may substitute the following AIB courses for the equivalent required course in the business core:

	Shepherd Course	AIB Course
BADM 212	Business Law I	Law and Banking (Principles) or Law and Banking (Applications)
BADM 340	Marketing	Marketing for Bankers
BADM 310	Principles of Management	Bank Management
ECON 205	Principles of Macroeconomics	Economics for Bankers and
ECON 206	Principles of Microeconomics	Money and Banking
ACCT 202	Introductory Accounting II	Analyzing Financial Statements

To make these substitutions, the American Institute of Banking courses must be taught for academic credit) through Shepherd College or at regionally-accredited institutions. These substitutions are only for the A.S. degree and do not apply to bachelor's degrees.

In addition to the required general education courses and the core business courses (with the above possible substitutions) the following courses are required:

Principles of Banking (AIB course)	3
AIB elective courses	6
Business Administration or AIB elective courses	6

General Business Concentration

Students who complete the general business concentration qualify for entry level positions as clerks, technicians, or assistants to managers. The program is also designed for persons planning to transfer into a bachelor's program in business at Shepherd College. It is flexible in that it permits students to select from a wide range of courses.

General business concentration	1
--------------------------------------	---

Electives in business courses numbered above 200	12
EDM 292 Internship	3

Marketing Management

Students who complete the marketing concentration qualify for entry-level positions in retail stores and wholesaling operations. The program is also designed for persons planning to transfer to the bachelor's program in business (marketing concentration) at Shepherd College.

Market management concentration	15
SCI 203 General Sociology	3
EDM 350 Retailing	3
EDM 365 Promotional Strategy	3
EDM 375 Strategic Marketing	3
EDM 292 Marketing Internship	3

otel-Motel and Restaurant Management Concentration

This program has been deleted.

BUSINESS INFORMATION/OFFICE TECHNOLOGY

Curriculum for an Associate of Applied Science Degree in Business Information/Office Technology

The growing number of private and government offices in the Eastern Panhandle requires well-trained support staff. The business information/office technology program gives students the training they need to qualify for employment upon graduation. The office technology option prepares students for jobs as secretaries, office managers, and administrative assistants. It includes instruction in office systems technology and computer skills. The information technology option includes courses in computer information systems and various software applications. This option prepares students for positions as computer operators and specialists.

total hours required	64
general education core	18
GNG 101 Written English	3
COMM 202 Fundamentals of Speech	3
FTC 105 Fundamentals of Business Communications	3
CON 123 Contemporary Economics or	
CON 205 Principles of Macroeconomics	3
ATH 154 Finite Mathematics or	
MATH 101 Introduction to Mathematics	3
YC 103 Introduction to Psychology or	
OCI 203 General Sociology	3
business requirements	27
FTC 205 Computerized Accounting Applications	3
ADM 150 Introduction to Business	3
ACT 201 Introductory Accounting I	3
ADM 212 Business Law I	3
ED 250 Introduction to Office Technology	3
ED 324 Office Administration	3
ED 329 Office Systems Software	3
ED 380 Desktop Publishing	3
ED 292 Internship	3
option I	
information technology requirements	19
FTC 150 Troubleshooting	3

22 • Shepherd College

OFTC 210	Microcomputer Operations	3
OFTC 240	Repairing and Maintaining the IBM PC	3
OFTC 260	Local Area Networks	3
Electives (from any business courses in ACCT, BADM, BSED, CIS)	.....	7
Option II		
Office technology requirements .....	.....	11
BSED 104	Keyboarding II	3
BSED 201	Alphabetic Notetaking	3
BSED 320	Electronic Editing	3
OFTC 150	Troubleshooting	3
OFTC 210	Microcomputer Operations	3
Elective (from any courses in ACCT, BADM, OFTC, CIS) .....	.....	4
Option III		
Computing science requirements .....	.....	19
CIS 104	Introduction to CIS	3
CIS 211	Computer Language Concepts	4
CIS 212	Adv. Computer Language Concepts OR	4
CIS 287	System Analysis and Design	3
Choose 9-10 hours from the following:	.....
MATH 105	Algebra	3
CIS 212	Adv. Computer Language Concepts	4
CIS 287	System Analysis and Design	3
OFTC 260	Local Area Networks	3
OFTC 210	Microcomputer Applications	3
OFTC 150	Troubleshooting	3
OFTC 240	Repairing/Maintaining IBM PC	3

ELECTRONICS TECHNOLOGY

Curriculum for an Associate of Science Degree in Electronics Technology

Total hours required for the degree .....	.....
Shepherd course work .....	.....
Requirements .....	.....
MATH 105	Algebra	3
MATH 106	Trigonometry	3
GSCI 103	General Physical Science	4
ENGL 101	Written English	3
ENGL 102	Written English OR	
COMM 202	Fundamentals of Speech	3
MUSC 111	Music Appreciation OR	
ART 102	Introduction to the Visual Arts	2
Program electives from general studies courses offered in social sciences .....	.....	3
Course work from general studies or the courses listed below .....	.....
ENGR 101	Introduction to Engineering	3
MATH 108	Precalculus	3
MATH 154	Finite Math	3
CIS 102	Microcomputer Applications	3
CIS 104	Introduction to Computer and Information Sciences	3
CIS 211	Computer Language Concepts	3
James Rumsey course work .....	.....
JR 101	Electronics Shop Orientation and Physics	1

JH102	D.C. Fundamentals and Intro to A.C.	4
JH103	A.C. Fundamentals, Circuit Analysis, and Semiconductors ...	5
JH104	Digital Electronics and Advanced Circuits	4
JH105	Electronic Circuits and Systems	4
JH106	Advanced Electronic Circuit Techniques	2
JP201	Microprocessor Technology OR	
R 202	Consumer Product Servicing Technology	10

OCCUPATIONAL DEVELOPMENT

Curriculum for an Associate of Applied Science, Early Childhood Specialization

Total hours required for the degree 64

General studies courses 19

EGL 101 *Written English 3

EGL 102 Written English OR

ADM 345 Written Communication in Business 3

CMM 202 Fundamentals of Speech 3

MTH 101 *Introduction to Mathematics 3

CEM 100 Chemical Science OR

COL 100 Life Science for Elementary Teachers 4

Elective from the following courses, 3 hours: HIST 101, 102, 103; ECON 123, 205; PSCI 100, 111; SOCI 203; CIS 102; EDUC 209.

*Depending on a student's placement scores, Academic Foundations courses may be needed before these courses.

Early education courses 12

FCS 304 Child Development 3

EUC 314 Foundations of Early Education 3

EUC 334 Instructional Strategies in Early Education 3

Elective from the following courses, 3 hours:

FCS 310 Parents and Children through the Lifespan 3

FCS 300 Marriage Relations 3

SCI 303 The Family 3

FCS 307 Resource Management 3

FCS 318 Nutrition 3

Apprenticeship for child development specialist classes 20

Introductory Child Development

Planning for the Whole Child

Facilitation of Learning

Becoming Independent

Serviced on-the-job training (4,000 hours) 13

Curriculum for an Associate of Applied Science Degree in Community Behavioral Health Technology

This program has been deleted.

PARALEGAL STUDIES

Curriculum for an Associate of Science Degree in Paralegal Studies

The associate's degree in paralegal studies is a program designed to provide students with a balance between theory and practice, enabling graduates to step immediately into opportunities in this growing area of the legal community. The program is designed to prepare individuals for employment at all levels of the law—administration, trial, appellate, and government.

Total hours required 6

ENGL 101	Written English	3
CIS 102	Microcomputer Applications	3
PARA 101	Legal Research and Writing I	4
PARA 110	Legal Assisting	3
MATH 111	Mathematics of Finance OR	
ACCT 201	Accounting	3
ENGL 102	Written English	3
ECON 123	Contemporary Economics OR	
ECON 205	Principles of Macroeconomics	3
PARA 102	Legal Research and Writing II	4
PARA 120	General Law	3
SOCI 203	Introduction to Sociology OR	
PSYC 203	Introduction to Psychology	3
COMM 202	Fundamentals of Speech	3
PARA 210	Law of Domestic Relations	3
PARA 220	Civil Litigation and Procedure	4
PARA 230	Evidence	3
	Elective*	3
PARA 250	Criminal Litigation and Procedure	4
PARA 260	Business Law and Contracts	3
PARA 270	Real Estate Law/Wills and Estates	3
	Elective*	3
PARA 292	Internship OR	
	Elective*	3

*Electives:

PARA 235	Torts/Causes of Action	3
Or CJST electives with approval of advisor.		

COURSES ACCOUNTING

ACCT 401. COMPUTER-BASED ACCOUNTING (3)

This course employs general purpose accounting software and requires the student to design, implement, and utilize an accounting system. Prerequisite: ACCT 331, 335.

ACCT 402. AUDITING (3)

Concepts, objectives, standards, procedures, and techniques relating to the performance of an audit. Emphasis on decisions which involve judgment that are important to final reporting. Prerequisite: ACCT 331.

BHAVIORAL HEALTH

These courses have been deleted.

ENGLISH**EGL 220. APPALACHIAN CULTURE (3)**

Appalachian Culture will introduce students to a wide variety of creative expression from those cultures which constitute southern Appalachia, particularly West Virginia, Virginia, Tennessee, North Carolina, and Kentucky. Students will study cultural stereotypes about Appalachia, unique historical and cultural forces at work in Appalachia, and the rich expression of creativity in Appalachia (including oral and written literatures, visual arts and crafts, and singing and songwriting).

EGL 322. HAMLET IN CONTEXT (3)

A reading of the received text of *Hamlet* in order to consider it in terms of the Elizabethan revenge-play, the historical and political background of Shakespeare's tragic vision, the apparent source materials of the Hamlet story, and its influence on the later Jacobean stage. Works considered are Kyd's *The Spanish Tragedy*, Webster's *The White Devil*, Marston's *The Malcontent*, and well as a variety of Shakespeare's plays.

EGL 460. PRACTICUM IN APPALACHIAN CULTURE I (1)

The student serves as assistant and/or researcher for the Appalachian Studies Festival or he/she will further explore a research or practicum project which grows out of the Appalachian Culture course. Prerequisite: Permission of coordinator(s) for the Appalachian Studies Program.

EGL 461. PRACTICUM IN APPALACHIAN CULTURE II (2)

The student serves in more significant role as assistant and/or researcher for the Appalachian Studies Festival or he/she will further explore, in a more profound and exhaustive degree than in the first practicum course, a research or practicum project associated with the Appalachian Studies Program. Prerequisite: Permission of coordinator(s) for the Appalachian Studies Program.

GENERAL STUDIES PHYSICAL EDUCATION (GSPE)

The general studies physical education program is part of the College-wide program of general studies. The GSPE program provides students with instruction and meaningful experiences in exercise, sport, wellness, and other lifestyle/recreational activities.

All students are required to complete a minimum of two semester hours of GSPE. These are one-credit courses and most are taught for the full semester. No other prefix substitutes for the GSPE prefix, i.e., ATHC, ARED, PHED do not substitute for GSPE. Only two GSPE courses meet this requirement. Students who cannot satisfy this requirement due to a disability or other special condition should contact the chair of the Department of HPERS.

CPE 111.	Aerobic Boxing/Coed
CPE 117.	East Coast Swing Dance/Men
CPE 118.	East Coast Swing Dance/Women
CPE 128.	Rock Climbing/Rappelling
CPE 131.	Ice Skating
CPE 132.	Ice Hockey
CPE 205.	The Weight Loss Program

NURSING

NURS 426. NURSING VIII HEALTH CARE OF THE ADULT: CRITICAL CARE FOCUS (3)

This final course of adult health nursing focuses on the therapeutic nursing interventions used to restore health to adults who are experiencing acute and/or complex health problems. Analyzes deviations from health with attention to the implications for the individual as well as the family in coping with health problems. Analyzes the client's health care needs and the resources to meet them in collaboration with the client and health providers. Incorporates ethical and legal issues involving clients with complex needs.

NURS 434. MANAGEMENT AND ISSUES IN HEALTH CARE (3)

This course is designed to examine current health care issues influencing professional nursing practice. The student is introduced to management principles and leadership roles and responsibilities within different health care organizations and settings.

NURS 436. SENIOR CAPSTONE NURSING (1)

This course will allow the culmination of nursing course work in which students will establish professional, collegial relationships with nursing mentors. Students will engage in creative endeavors that reflect synthesis of nursing knowledge and critical thinking, contribute to quality patient care, health care management, and nursing research. Students will choose mentors from a variety of integrated health care systems in collaboration with nursing faculty.

PHYSICS

PHYS 201. COLLEGE PHYSICS (3)

An introductory treatment of fundamentals of mechanics, heat, and sound. Three hours lecture per week. PHYS 201L must be taken concurrently with PHYS 201.

PHYS 201L. COLLEGE PHYSICS LAB (1)

A two hour per week laboratory course with topics selected from mechanics, heat, and sound. Must be taken concurrently with PHYS 201.

PHYS 202. COLLEGE PHYSICS (3)

An introductory treatment of the fundamentals of electricity, magnetism, and optics. Three hours of lecture per week. PHYS 202L must be taken concurrently with PHYS 202. Prerequisite: PHYS 201.

PHYS 202L. COLLEGE PHYSICS LAB (1)

A two hour per week laboratory course with topics selected from electricity, magnetism, and optics. Must be taken concurrently with PHYS 202. Prerequisite: PHYS 201L.

PHYS 221. GENERAL PHYSICS (3)

A calculus-based treatment of fundamentals of mechanics, heat, and sound. Three hours lecture per week. PHYS 221L must be taken concurrently with PHYS 221. Prerequisite or corequisite: MATH 207.

PHYS 221L. GENERAL PHYSICS LAB (1)

A two hour per week laboratory with topics selected from mechanics, heat, and sound. May be taken concurrently with PHYS 221.

PHYS 222. GENERAL PHYSICS (3)

A calculus-based treatment of the fundamentals of electricity, magnetism, and optics. Three hours of lecture per week. Prerequisite: PHYS 221. Prerequisite or corequisite: MATH 208.

PHYS 222L. GENERAL PHYSICS LAB (1)

A two hour per week laboratory course with topics selected from electricity, magnetism, and optics. Must be taken concurrently with PHYS 222. Prerequisite: PHYS 221L.

PHYS 323. MODERN PHYSICS (3)

Topics will include special relativity, atomic structure, nuclear structure, solid state physics, and planetary particles. Prerequisites: PHYS 222 and MATH 207.

PHYS 330. ADVANCED LABORATORY (2)

A series of laboratory experiments in electricity, magnetism, mechanics, and modern physics. Six hours per week. Prerequisites: PHYS 221, 222.

PHYS 322. ELECTRICITY AND MAGNETISM (3)

Principles of electricity and magnetism with practical applications. Prerequisites: PHYS 222 and MATH 208.

PHYS 401, PHYS 404. SPECIAL PROJECTS (1 EACH)

Experimental and theoretical research projects in specific areas of physics. Project assignment dependent upon student's ability and interest.

Index

A

- Accounting
 - Associate's Degree 20
- Accounting Courses 24
- Advanced Placement Tests 6
- Assessment and Placement Programs 7
- Assessment and Placement Standards
 - Reading 6
- Associate's Degrees
 - Business 19
 - Business Information/Office Technology 21
 - Electronics Technology 22
 - Early Childhood Specialization 23
- Athletic Training
 - Minor 8
- Audit 5

B

- Banking Concentration
 - Associate's Degree 20
- Behavioral Health Courses 24
- Business
 - Associate's Degree
 - Accounting Concentration 20
 - Banking Concentration 20
 - General Business Concentration 20
- Business Information/Office Technology
 - Associate's Degree 21

C

- Community Behavioral Health Technology 23
- Computer and Information Sciences
 - Comprehensive Major 8

D

- Dean's List 7

E

Ely Childhood Specialist, Associate of Applied Science
Occupational Development 23

Education

Admission 9
Curricular Policies for Teacher Education 10
Retention 10

Second Teaching Field in Health Education 14

Specializations 9

Electronics Technology

Associate's Degree 22

English 11

English Courses 25

English-Language Arts 5-12 11

Environmental Studies

Major 12

F

Fishman Assessment and Placement Standards

Reading 6

C

General Business Concentration

Associate's Degree 20

Graduation Requirements 7

Graduation with Honors 7

H

Health and Physical Education 15

Health Education

Second Teaching Field 5-12 14

Hotel-Motel and Restaurant Management 16

Hotel-Motel and Restaurant Management Concentration 21

I

Immunization Requirement 5

International Baccalaureate 7

M

Marketing Management 21

Military Service, College Credit for 5

Music 16

N

- Nursing
 - Comprehensive Major 17
 - Nursing Courses 25

O

- Occupational Development 23

P

- Paralegal Studies
 - Associate of Science Degree 23
- Physical Education
 - General Studies Courses 25
- Physics
 - Courses 26
 - Placement Tests 6

R

- Recreation and Leisure Studies 19

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